

23 F M
S E B

OSA - 4839-66

19 December 1966

25X1A

To: [redacted]

Subject: VERIFICATION OF SUIT CONTROLLER PERFORMANCE
WITH AND WITHOUT PROTECTOR COVER 4TAQ12

25X1A

Dea [redacted]

The subject cover was to be added to the suit controller to protect the O₂ hoses from damage during aircraft emergencies.

To insure that no additional vent air flow back pressure resulted from enclosing the controller within the subject cover, 4TAQ12, the following tests were successfully concluded:

- A. Vent airflow at sea level with and without the cover installed.
- B. Vent airflow at normal cabin altitude with and without the cover installed.

The results shown by the enclosed data indicates that no increase in back pressure resulted by enclosing the suit controller within the cover 4TAQ12.

We are presently making twenty covers from our prototype cooling and will coordinate with [redacted] or [redacted] installation.

25X1A



meb

Enclosure

25X1A

K+E LOGARITHMIC
4 X 2.7 CYCLES
KEUFFEL & ESSER CO.

46 7283
MADE IN U.S.A.

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25X1A

AIR

40 Gp

REGULATOR

JULY 17 Regulator

$\sim H_2O$

AMBIENT 27.44

CURVE #1

63.5°F AIR

WITHOUT COVER

CURVE #2 WITH COVER

60°F AIR

JAMES A.

CURVE #3 WITHOUT COVER
60°F AIR

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K LOGARITHMIC
2 X 2 CYCLES
46 7283

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25X1A

AFC

VAC.

AMBIENT = 10.56 KHM

REGULATOR

Ds = 4.2

CURVE #6

70° AIR

THIS CURVE APPLIES TO
REGULATOR WITH NO COVER.

25X1A

12-13-66

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